

Service Manual

NATIONAL**TAPE RECORDER****PANASONIC**

STEREO CASSETTE TAPE DECK WITH AUTOMATIC REVERSE SYSTEM

**RS-272US MECHANISM SERIES****MODEL RS-272US**

SPECIFICATIONS

Power Source:	AC: 90~105, 110~125V, 200~215, 220~250, volts; 50/60 Hz	Rewind Time:	Less than 100 seconds with C-60 cassette
Power Consumption:	Approx. 10 W	Recording Bias System:	AC bias, 100 kHz
Motor:	Mechanical governor motor	Frequency Response:	30~12,000 Hz
Transistors:	2SC644(6) 2SC945(7) 2SD261(3)	Inputs:	2 "MIC" -70 dB 600~20 kΩ 2 "AUX" -30 dB 100 kΩ
Diodes & Rectifier:	OA90Z(4) SD1Y(2) 1S1850(1) 1S1211(2) KC2dp 22/IC(1)	Outputs:	2 "LINE OUT" 10 kΩ 1 "HEADPHONE" 8Ω
Track System:	4-track, 2-channel stereo	Recording Time:	One hour (two-way, using C-60 Cassette)
Tape Speed:	1-7/8 ips	Dimention:	15-3/8"(W) x 4-3/8"(H) x 10-3/8"(D)
Fast Forward Time:	Less than 100 seconds with C-60 cassette	Weight:	11 lbs.

These specifications are subject to change in order to accommodate improvements in design.



LOCATION OF PARTS

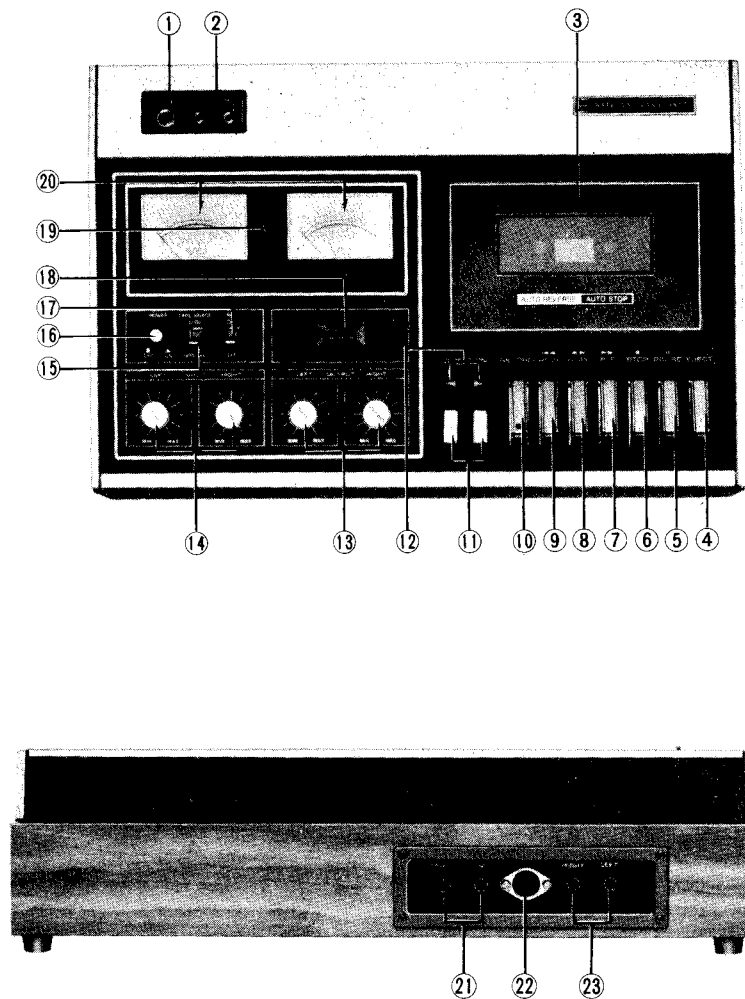


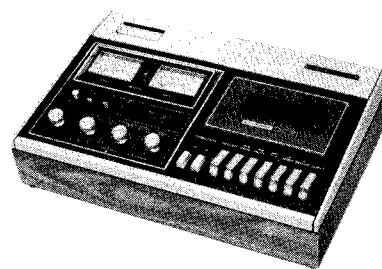
Fig. 1

- | | |
|-----------------------|------------------------------|
| ① Headphone jack | ⑬ Output level control knobs |
| ② MIC jacks | ⑭ Input level control knobs |
| ③ Cassette lid | ⑮ Tape select switch |
| ④ Eject button | ⑯ Power switch |
| ⑤ Pause button | ⑰ NS switch |
| ⑥ Stop button | ⑱ Tape counter |
| ⑦ Fast forward button | ⑲ Recording indication lamp |
| ⑧ Playback button | ⑳ Level meters |
| ⑨ Rewind button | ㉑ Line in jacks |
| ⑩ Record button | ㉒ Rec/Pb connector socket |
| ⑪ Direction buttons | ㉓ Line out jacks |
| ⑫ Direction lamps | |

REPLACEMENT PARTS LIST

MODEL RS-272US

NATIONAL PANASONIC



RS-272US

NOTE:

1. Be sure to make your orders of Replacement Parts according to this List.
2. "X" in "Rank" Column indicates that the part are not supplyable.
3. "A, B and C" in "Rank" Columun indicates the recommended stock of replacement parts. Refer to the recommended stock table on last page.
4. "★" in "Remarks" Column indicates New Parts.
5. "ISO" in "Remarks" Column indicates ISO Screw or Nut.

NOTA:

1. Habrá que asegurarse que los pedidos de piezas de repuesto se hagan según esta lista.
2. "X" marcado en la columna "Rank", quiere decir que dichas piezas no pueden ser provistas.
3. "A, B y C" marcadas en la columna "Rank" indican el surtido que se recomienda tener de dichas piezas de repuesto.
4. "★" markado en la columna "Remarks", quiere decir que las piezas son nuevas.
5. "ISO" marcado en la columna "Remarks", quiere decir que es un tornillo o tuerca "ISO".

NOTE:

1. Bien s'assurer de se conformer à la liste suivante pour les commandes de pièces de rechange.
2. "X", dans la colonne "Rank", indique qu'il n'est pas possible de fournir ces pièces.
3. "A, B et C", dans la colonne "Rank", indiquent le stock recommandé de pièces de rechange. Se reporter en dernière page au tableau des stocks/recommandés.
4. "★", dans la colonne "Remarks", indique les pièces nouvelles.
5. "ISO", dans la colonne "Remarks", indique une vis ou un écrou ISO.

HINWEIS:

1. Bestellen Sie Ihre Ersatzteile genau nach dieser Liste.
2. Mit "X" in der "Rank" Spalte aufgeführte Teile können nicht geliefert werden.
3. "A, B und C" in der "Rank" Spalte zeigt Ihnen den Vorrat der Ersatzteile an.
4. "★" in der "Remarks" Spalte bedeutet "neue Teile".
5. "ISO" in der "Remarks" Spalte bedeutet ISO-Schraube oder Mutter.

按:

1. 關於代用零件之訂購，務請依照此表而行之為荷。
2. 「等級」(Rank) 一欄中之 "X" 標記表示該零件無從供應。
3. 「等級」(Rank) 一欄中之 "A, B, C" 標記表示該零件有存貨，值得介紹。
請參照最後一頁的「值得介紹存貨表」。
4. 「備考」(Remarks) 一欄中之 "★" 形符號標記表示該零件為新品。
5. 「備考」(Remarks) 一欄中之 "ISO" 符號標記表示國際標準化機構 (ISO) 式螺絲或螺母。

RS-272US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
		<u>MECHANICAL PARTS</u>					
C	M1	Tapping Screw $\oplus 3 \times 8$	XTN3+8	3			COMMON
C	M2	Sems Screw $\oplus 2.6 \times 8$	XYN26+C8	5			COMMON
C	M3	Lock Washer 2.6 ϕ	XWC26B	3			COMMON
X	M4	Cassette Retainer Assembly	QXE0144	1			★
B	M5	Brake	QBJ1950	1			★
C	M6	Stop Ring 2 ϕ	XUC2FT	8			COMMON
C	M7	Acetyloid Washer	QBJ3099	3			RS-275US
C	M8	Friction Spring	QBP1354	1			★
B	M9	Idler Assembly	QXP0350	1			★
C	M10	Stop Ring 1.5 ϕ	XUC15FT	2			COMMON
C	M11	Reel Table Washer	QBJ3224	2			RQ-237S
A	M12	Reel Table Assembly	QXP0370	2			★
A	M13	Drive Pulley Assembly	QXP0357	1			★
C	M14	Acetyloid Washer	QBJK0015	2			RQ-200S, RS-240S, 241S
C	M15	Reel Table Shaft	QXP0359	2			★
C	M16	Screw $\oplus 2 \times 4$	XSS2+4	3			COMMON
B	M17	Pinion Gear	QDG1025	1			RS-262US
C	M18	Ejector	QBJ1885	1			★
C	M19	Sems Screw $\oplus 2.6 \times 6$	XYN26+C6	18			COMMON
B	M20	Eject Spring	QBN1224	1			★
C	M21	Stop Ring 3 ϕ	XUC3FT	23			COMMON
X	M22	Cassette up Table	QMH1182	1			★
C	M23	Ejector Shaft	QMS2036	1			★
B	M24	Steel Ball 3 ϕ	QDK1006	2			RS-240S, 241S
C	M25	Steel Ball Guide	QBJ1884	2			★
C	M26	Pressure Roller Shifter Assembly	QXL0529	1			★
C	M27	Screw $\oplus 2.6 \times 6$	XSS26+6	1			COMMON
C	M28	Release Lever Spacer	QMZ1077	1			★

RS-272US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C	M29	Pressure Release Lever Assembly	QXL0530	1			★
B	M30	Gear	QXG1009	1			★
X	M31	Stop Feeler Assembly	QXH0120	1			★
C	M32	Spring-D	QBT1568	1			★
C	M33	Fiber Washer 4.2 x 9 x 0.25t	QBK7007	6			COMMON
C	M34	Center Spring	QBN1234	1			★
C	M35	Lock Release Lever-A	QML2213	1			★
C	M36	Release Lever-B	QML2214	1			★
B	M37	Push Button Assembly	QXB0109	1			★
B	M37-1	Push Button-A Assembly	QXB0110	6			★
B	M37-2	Push Button-B Assembly	QXB0111	1			★
C	M38	Screw ⊕2.6 x 4	XSN26+4	1			COMMON
C	M39	Reverse Feeler	QML2211	1			★
X	M40	Auto Reverse Lever Assembly	QXL0526	1			★
C	M41	Fiber Washer 4.2 x 9 x 1t	QBK7175	1			★
X	M42	Auto Release Lever Assembly	QXL0525	1			★
X	M43	PL Play Arm	QML2207	1			★
C	M43A	Flat Washer	XWE3FX	2			COMMON
A	M44	Tape Counter	QDC0050	1			★
A	M45	Counter Belt	QDB0150	1			★
C	M46	Light Disk	QMF1336	1			RS-256US
X	M47	Counter Angle	QMA1712	1			★
X	M48	Cds Angle	QMA1713	1			★
C	M49	Sems Screw ⊕3 x 6	XYN3+C6S	9			COMMON 
X	M50	Reverse Button Base	QMH1183	1			★
B	M51	Plunger	QME0125	1			RS-803US
C	M52	Fiber Washer 4.2 x 9 x 0.5t	QBK7109	4			★
X	M53	PL Fast Forward Arm Assembly	QXA0129	1			★
X	M54	Plunger Rod Assembly	QXM0077	1			★

RS-272US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C	M55	Plunger Rod Spring	QBT1558M	1			★
C	M56	Pressure Roller Lever - L Spring	QBN1230	1			★
C	M57	Pressure Roller Lever - L Assembly	QXL0557	1			★
X	M58	Change Lever Assembly	QXL0524	1			★
C	M59	Feeler Ring	QBP1271	1			★
X	M60	Reverse Connection Rod	QMR1188	1			★
C	M61	Screw $\oplus 2 \times 5$	XSN2+5	2			COMMON
C	M62	Screw $\oplus 2 \times 15$	XSN2+15	2			COMMON
X	M63	Erase Head Table	QMH1208	1			★
C	M64	Head Spring	QBC1186	2			★
C	M65	Screw $\ominus 1.7 \times 2$	XSN17-2BN	2			★
C	M66	Screw $\oplus 2 \times 8$	XSN2+8	1			COMMON
X	M67	Head Base Collar	QBJ1954	1			★
X	M68	Instant Stop Lever - A Assembly	QXL0523	1			★
C	M69	Pressure Roller Lever - R Assembly	QXL0556	1			★
C	M70	Pressure Roller Lever - R spring	QBN1231	1			★
A	M71	Motor Pulley	QDP1424	1			★
B	M72	Motor Pulley Set Screw	XSN2+6	1			COMMON
X	M73	Motor Angle	QMA1745	1			★
B	M74	Motor Holding Screw	QMS1833	3			★
C	M75	Motor Cushion Rubber	QBG1055A	3			RO-237S
A	M76	Motor	QDM1339	1			★
X	M77	Micro Switch Table	QMH1194	1			★
X	M78	Flywheel Retainer	QXH0118	1			★
B	M79	Take up Pulley- B Assembly	QXP0384	1			★
A	M80	Friction Belt	QDB0152	1			★
C	M81	Screw $\oplus 2 \times 4$	XSN2+4	1			COMMON
C	M82	Bearing Cap	QMF1460	1			★
C	M83	Drive Roller Bearing	QBJ1801	1			★

RS-272US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
A	M84	Flywheel Belt	QDB0148	1			★
A	M85	Flywheel - R	QXF0078	1			★
A	M86	Flywheel - L	QXF0073	1			★
C	M87	Brake Spring	QBN1228	1			★
X	M88	Record Adjust Plate	QML2195	1			★
C	M89	Spring - A	QBT1569M	4			★
C	M90	Stop Ring 4φ	XUC4FT	1			COMMON
X	M91	Record Lever	QML2194S	1			★ 
X	M92	Stop Ring 2.5φ	XUC25FT	5			COMMON
X	M93	Switch Arm	QML2192	1			★
C	M94	Click Roller	QDP1436	2			★
C	M95	Clicker Spring	QBN1233	1			★
X	M96	Click Lever Assembly	QXL0527	1			★
X	M97	Record Selector	QML2191	1			★
C	M98	Spring - C	QBT1577M	1			★
C	M99	Reverse Select Button Rod-B Assembly	QXM0081	1			★
C	M100	Reverse Select Button Rod-A Assembly	QXM0080	1			★
C	M101	Reverse Button Base Spring	QBN1244	1			★
X	M102	Reverse Button Guide	QMH1188	1			★
C	M103	Reverse Button Collar	QMP1366	1			★
C	M104	Reverse Button Rod Spring	QBC1190	1			★
X	M105	Direction Select Lever - R	QML2204	1			★
C	M106	Reverse Button Shaft	QMS2046	1			★
X	M107	Direction Select Lever - L	QML2203	1			★
X	M108	Reverse Button Rod - L Assembly	QXM0097	1			★
X	M109	Reverse Button Rod - R Assembly	QXM0096	1			★
X	M110	Leaf Switch Angle	QMH1191	1			★
C	M111	Nut 5φ	XNG5ES	2			COMMON 
C	M112	Idler Function Arm Assembly	QXA0127	1			★

RS-272US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C	M113	Spring - B	QBT1567M	4			★
C	M114	Idler Assistant Arm Assembly	QXA0128	1			★
C	M115	Take up Roller Spring	QBN1212	1			★
C	M116	Reel Table Boss Collar	QMP1345	2			★
B	M117	Idler Arm Assembly	QXA0115	1			★
C	M118	Idler Collar	QBJ1825	1			★
C	M119	Lifter	QML2129	1			★
C	M120	Lifter Collar	QBJ1863	1			★
C	M121	Square Washer	QMZ1074	1			★
C	M122	Acetyloid Washer	QBJ3254	2			★
B	M123	Roller Assembly	QXP0351	1			★
C	M124	Idler Spring	QBC1187	1			★
C	M125	Idler Washer	QMZ1075	1			★
X	M126	Instant Lever - B	QML2186	1			★
C	M127	Lock Plate Spring	QBT1487M	2			RQ-237S
C	M128	Fiber Washer 6.2 x 11 x 1t	QBK7130	1			COMMON
C	M129	Fiber Washer 3.2 x 6 x 0.25t	QBK7122	3			COMMON
C	M130	Pressure Arm Spring	QBT1555	1			★
X	M131	Pressure Arm	QML2188	1			★
C	M132	Fast Forward Rod Assembly	QXM0095	1			★
C	M133	Playback Lever Spring	QBT1536M	1			RQ-237S
C	M134	Rod Guide	QBJ1883	1			★
C	M135	Lock Rod Assembly	QXM0082	1			★
C	M136	Take up Rod Assembly	QXM0078	1			★
C	M137	Record Rod Assembly	QXM0079	1			★
C	M138	Rewind Rod Assembly	QMR1192	1			★
C	M139	Playback Rod Assembly	QXM0075	1			★
C	M139-1	Switch Spring	QBP1379	3			★
C	M140	Fast Forward Rod	QMR1194	1			★
C	M141	Stop Rod	QMR1195	1			★

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C	M142	Instant Stop Rod	QXM0073	1			★
C	M143	Eject Rod	QMR1197	1			★
		<u>RESISTORS</u>					
B	R1, 2, 57, 58, 74, 75	Carbon Resistor 1K Ω 1/4W	ERD14TJ102	6			
B	R3, 4	" 220K Ω 1/4W	ERD14TJ224	2			
B	R5, 6, 110, 120	" 120 Ω 1/4W	ERD14TJ121	4			
B	R7, 8, 73	" 18K Ω 1/4W	ERD14TJ183	3			
B	R9, 10	" 33K Ω 1/4W	ERD14TJ333	2			
B	R11, 12, 59, 60, 78, 84	Carbon Resistor 6.8K Ω 1/4W	ERD14TJ682	6			
B	R13, 14, 85,	" 8.2K Ω 1/4W	ERD14TJ822	3			
B	R15, 16	" 3.3K Ω 1/4W	ERD14TJ332	2			
B	R17, 18, 81, 86	" 1.5K Ω 1/4W	ERD14TJ152	4			
B	R19, 20	" 180K Ω 1/4W	ERD14TJ184	2			
B	R21, 22	Carbon Resistor 100 Ω 1/4W	ERD14TJ101	2			
B	R23, 24, 39, 40	" 47K Ω 1/4W	ERD14TJ473	4			
B	R25, 26, 33, 34, 43, 44, 49, 50	" 2.2K Ω 1/4W	ERD14TJ222	8			
B	R27, 28, 65	" 2.7K Ω 1/4W	ERD14TJ272	3			
B	R29, 30	" 150K Ω 1/4W	ERD14TJ154	2			
B	R31, 32, 67	Carbon Resistor 15K Ω 1/4W	ERD14TJ153	3			
B	R35, 36	" 220 Ω 1/4W	ERD14TJ221	2			
B	R37, 38	" 3.9K Ω 1/4W	ERD14TJ392	2			
B	R41, 42	" 680 Ω 1/4W	ERD14TJ681	2			
B	R45, 46, 53, 54	" 100K Ω 1/4W	ERD14TJ104	4			
B	R47, 48	Carbon Resistor 39 Ω 1/4W	ERD14TJ390	2			
B	R51, 52, 63, 64	" 22K Ω 1/4W	ERD14TJ223	4			
B	R55, 56, 80	" 5.6K Ω 1/4W	ERD14TJ562	3			
B	R61, 62	" 56K Ω 1/4W	ERD14TJ563	2			
B	R68	" 27 Ω 1/4W	ERD14TJ270	1			
B	R69	Solid Resistor 330 Ω 1W	ERC1GM331	1			



RS-272US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
B	R70	Solid Resistor 180Ω 1W	ERC1GK181	1			
B	R71	" 56Ω 1/2W	ERC12GK560	1			
B	R72	" 22Ω 1/2W	ERC12GK220	1			
B	R79	Carbon Resistor 27KΩ 1/4W	ERD14TJ273	1			
B	R82, 83	Carbon Resistor 330Ω 1/4W	ERD14TJ331	2			
B	R87	" 47Ω 1/4W	ERD14TJ470	1			
B	R88, 89	" 100KΩ 1/4W	ERD14TJ104	2			
B	R90, 91	" 8.2Ω 1/4W	ERD14TJ8R2	2			
B	R150, 151	" 33KΩ 1/4W	ERD14VJ333	2			
B	R200, 201	Carbon Resistor 10Ω 1/4W	ERD14VJ100	2			
B	Cds	Cadmium Sulfide	SR10A	1			RS-256US
		<u>VARIABLE RESISTORS</u>					
A	VR1, 2	Semi-fixed Variable Resistor 20KΩ	EVL42AA00B24	2			RQ-229S, RS-736US
A	VR3, 4, 9, 10	Semi-fixed Variable Resistor 5KΩ	QVL01AA00B53	4			★
A	VR5, 6	Variable Resistor 20KΩ	EVCB0AS30A24	2			★
A	VR7, 8	Variable Resistor 10KΩ	EVCB0AS30A14	2			★
		<u>CAPACITORS</u>					
C	C1, 2, 19, 20	Mylar Capacitor 0.0082 μF	ECQM05822KZB	4			
C	C3, 4, 103, 104	Styrol Capacitor 1000 μF	ECQS1102KZ	4			
C	C5, 6	Tantalum Capacitor 2.2 μF	ECSZ25EF2R2	2			
C	C7, 8, 31, 32	Ceramic Capacitor 220 pF	ECCD1H221KA	4			
B	C9, 10, 35, 36, 75	Electrolytic Capacitor 100 μF	ECEA16V100L	5			
C	C11, 12	Ceramic Capacitor 47 pF	ECCD1H470K9	2			
B	C13, 14	Electrolytic Capacitor 47 μF	ECEA10V47L	2			
B	C15, 16, 33, 34, 39, 40, 47, 48	Electrolytic Capacitor 33 μF	ECEA6V33L	8			
B	C17, 18, 27, 28	Electrolytic Capacitor 10 μF	ECEA16V10L	4			
C	C21, 22	Mylar Capacitor 0.047 μF	ECQM05473KZB	2			
C	C23, 24, 60	Mylar Capacitor 0.0047 μF	ECQM05472KZB	3			
C	C25, 26	Aluminum Capacitor 0.68 μF	ECAG25ER68	2			




RS-272US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
B	C29, 30, 43, 44, 53, 54	Electrolytic Capacitor	3.3 μ F	ECEA25V3R3L	6		
C	C37, 38, 78, 79, 80, 81, 82, 83	Ceramic Capacitor	100 pF	ECCDIH101K9	8		
B	C41, 42, 49, 50	Electrolytic Capacitor	10 μ F	ECEA25V10L	4		
C	C45, 46	Aluminum Capacitor	0.1 μ F	ECAG25ER1	2		
C	C51, 52, 55, 56	Mylar Capacitor	0.0039 μ F	ECQM05392KZB	4		
C	C57, 58	Styrol Capacitor	820 pF	ECQS1821KZ	2		
C	C59	Polypro Film Capacitor	8200 μ F	ECQF4822JZ	1		
C	C61	Styrol Capacitor	2200 pF	ECQS1222KZ	1		
C	C62, 76	Mylar Capacitor	0.1 μ F	ECQM05104KZB	2		
B	C63, 66, 67	Electrolytic Capacitor	220 μ F	ECEA25V220L	3		
B	C64	Electrolytic Capacitor	470 μ F	ECEA25V470	1		
C	C65	Ceramic Capacitor	470 pF	ECCD1H471K9	1		
B	C68, 69	Electrolytic Capacitor	1000 μ F	ECEA25V1000L	2		
B	C70	Electrolytic Capacitor	3.3 μ F	ECEA25V3R3L	1		
B	C71	Electrolytic Capacitor	220 μ F	ECEA16V220L	1		
B	C72, 73	Electrolytic Capacitor	47 μ F	ECEA16V47L	2		
B	C74	Electrolytic Capacitor	100 μ F	ECEA6V100L	1		
B	C92	Electrolytic Capacitor	1000 μ F	ECEB25V1000L	1		
B	C100	Electrolytic Capacitor	33 μ F	ECEA25V33L	1		
C	C101, 102	Mylar Capacitor	0.012 μ F	ECQM05123KZB	2		
C	C105, 106,	Styrol Capacitor	1500 pF	ECQS1152KZ	2		
C	C160, 161	Styrol Capacitor	100 pF	ECQS1101KZ	2		
B	VC1, 2	Variable Capacitor		QCV2118	1		RS-270US
		<u>COMBINATION PARTS</u>					
B	CR1	CR Combination		QCR0002	1		RS-270US
B	CR2	CR Combination		QCR0004	1		★
		<u>TRANSISTORS</u>					
A	Tr1, 2, 3, 4	Transistor		2SC644 F (ST)	4		RS-270US, 275US
A	Tr5, 6	Transistor		2SC644 (RST)	2		RS-270US, 275US

RS-272US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
A	Tr7, 8, 9, 10	Transistor	2SC945 (Q)	4			RS-275US, 2571S
A	Tr11, 12, 13	Transistor	2SD261 (EL)	3			RS-275US
A	Tr14, 15, 16	Transistor	2SC945 (R)	3			RS-275US
		<u>DIODES & RECTIFIER</u>					
A	D1, 2, 6, 7	Diode	OA90Z	4			COMMON
A	D3, 10	Diode	SD1Y	2			RS-270US, 275US
A	D4	Silicon Diode	IS1850	1			RS-275US, 736US
A	D8, 9	Diode	IS1211	2			RS-253S, 259S 280S
A	D11	Rectifier	KC2dp22/IC	1			★
		<u>TRANSFORMERS</u>					
A	T1, 2	Output Transformer	QLA0372	2			★
A	T3	Oscillator Coil	QLB0140	1			RS-270US, 275US 768US
A	T4	Power Transformer	QLP0610S	1			★ 
		<u>SWITCHES</u>					
A	S1, 2	Slide Switch (Record/Playback Selector)	QSS1134	1			★
A	S3	Lever Switch (Noise Suppress)	QST0028	1			RS-735US
A	S4	Lever Switch (Tape Selector)	QST0028	1			RS-735US
A	S5	Micro Switch (Plunger Cut)	QSM0054	1			★
A	S6	Leaf Switch (Plunger Cut)	QSB0170B	1			RQ-209S
A	S7	Push Switch (Power ON/OFF)	ESB1130SS	1			RS-270US 
A	S8	Slide Switch (Forward/Reverse Selector)	QSS1136	1			★
A	S9	Slide Switch (Forward/Reverse Selector)	QSS1147	1			★
A	S10	Slide Switch (Rewind)	QSS1136	1			★
A	S11	Slide Switch (Play)	QSS1133	1			★
A	S12	Slide Switch (Fast Forward)	QSS1136	1			★
A	S13	Rotary Switch (Voltage Selector)	QSR0004A	1			RS-275US
A	S14	Leaf Switch (Plunger Cut)	QSB0167	1			★
A		Relay Switch	QSK0119	(1)			RS-275US

RS-272US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
		<u>ELECTRICAL PARTS</u>					
A	E1	Record/Playback Head	WY4102Z	1			★
A	E2	Erase Head	WY225Z	1			★
B	E3	Jack Board Assembly	QEJ0199	1			★
B	E4	MIC Jack	QJA0115	2			COMMON
B	E5	Headphone Jack	QJA0228	1			RS-270US
B	E6	Headphone Jack Nut	QNQ1033	1			RS-270US
B	E7	Jack Board	QGJ1192	1			RS-270US
A	E8	Pilot Lamp	XAMQ1S	3			★
B	E9	AC Power Cord	QFC1022	1			COMMON
e	E10	Cord Bushing	QTD1126A	1			COMMON
C	E11	6P Terminal Board	QJT6009	1			
A	E12	Relay	QSK0119	1			RS-275US
A	E13	Level Meter	QSL0063A	2			RS-275US
A	E14	Pilot Lamp	XAM30TW	1			RS-796US, 2571S
B	E15	DIN Socket	QJS0723S	1			RS-270US 
C	E16	Fuse Holder Assembly	QER1047	1			★
A	E17	Fuse 0.5A	XBA1E05NR1	1			COMMON
		<u>CABINET PARTS</u>					
B	G1	Body Case Assembly	QYJ1268	1			★
C	G1-1	Case Foot	QKA1050	4			RS-256US, 270US
C	G1-2	Jack Ornament Frame	QBJ1685	1			★
C	G1-3	Washer	QWQ1115	5			RS-270US
C	G1-4	Screw \oplus PH3 x 14	XSN3+14S	5			COMMON 
C	G1-5	Screw \oplus M2.7 x 8	XMM27+8FZ	4			COMMON
C	G1-6	Screw \oplus M3.8 x 13	XMM38+13	4			COMMON
B	G2	Panel Assembly	QYP0302S	1			★ 
A	G2-1	Cassette Lid	QKF1409	1			★
C	G2-2	Lid Spring - A	QBP1369	1			★

RS-272US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C	G2-3	Lid Spring - B	QBP1375	1			★
X	G2-4	Spring Aim	QBJ1876	1			★
C	G2-5	Slide Lid	QKF1090	1			★
X	G2-6	Lid Guide	QBJ1680	1			RS-270US
B	G2-7	Direction Select Light	QGL1046	1			★
C	G2-8	Screw $\oplus 3 \times 10$	XTN3+10B	7			COMMON
A	G3	Volume Knob Assembly	QYT0205S	4			RS-275US (ISO)
A	G4	Button Assembly	QXB0107	2			★
A	G5	Power Button Assembly	QYT0214	1			RS-270US
		<u>ACCESSORIES</u>					
A	A1	Connection Cord G	QEB0060P	2			RS-275US
B	A2	Cassette Tape	QTFITBCNAAZ	1			RS-275US
B	A3	Plug Adaptor	QJP0603S	1			COMMON (ISO)
B	A4	Instruction Book	QQT1581	1			★
		<u>PACKINGS</u>					
C	P1	Inner Packing	QPN2484	1			★
C	P2	Inner Cushion - A	QPN2485	1			★
C	P3	Inner Cushion - B	QPN2486	1			★
C	P4	Dust Cover	XZB60X50A05	1			
C	P5	Accessory Box	QPW1125	1			RS-256US, 262US

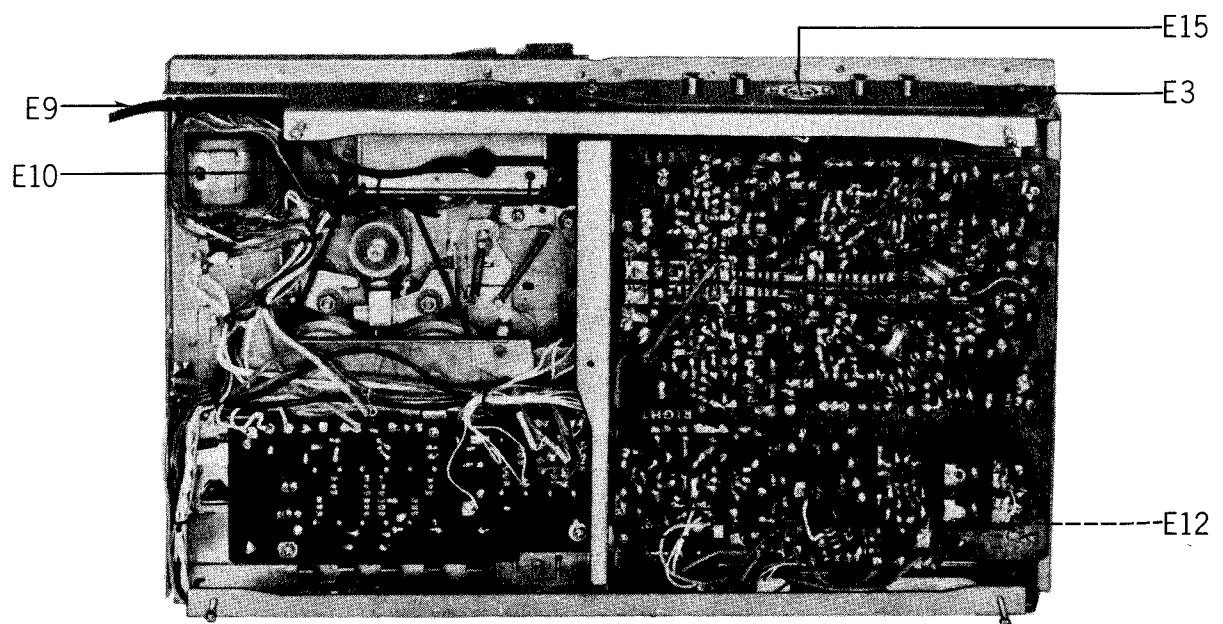
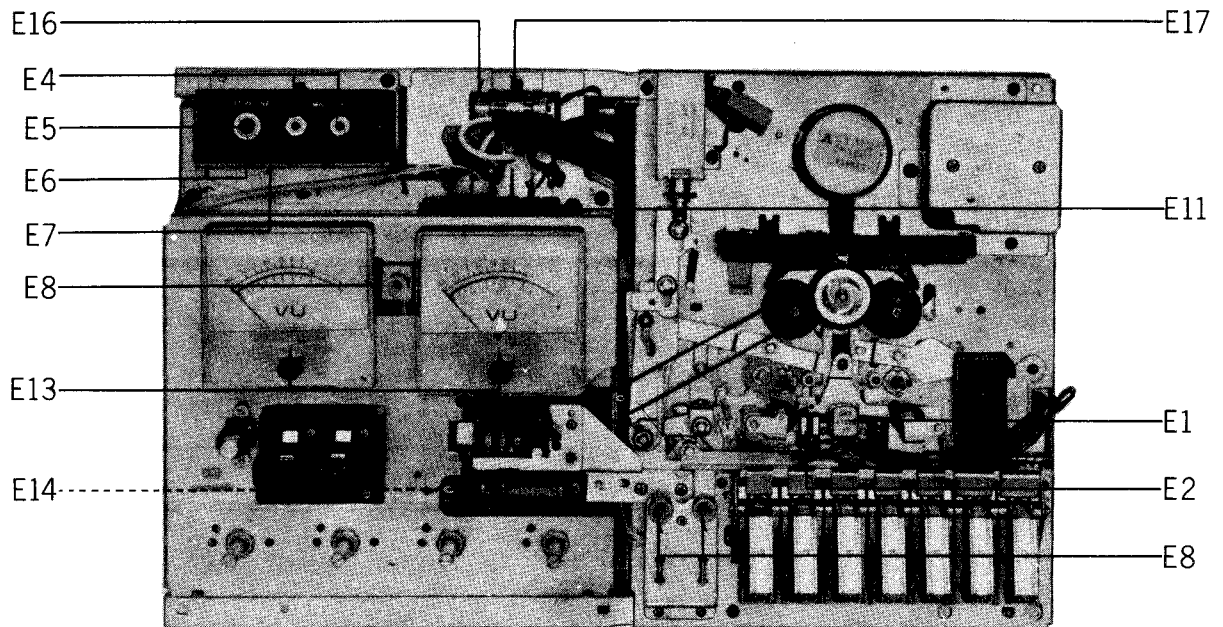
RECOMMENDED STOCK OF REPLACEMENT PARTS

Rank of Part	Estimated Selling Q'ty of Tape Recorder Set					
	Less than 50	100	300	500	1,000	2,000
A rank Parts	2	5	15	20	40	80
B rank Parts	1	2	5	10	20	40
C rank Parts	0	1	3	5	10	20

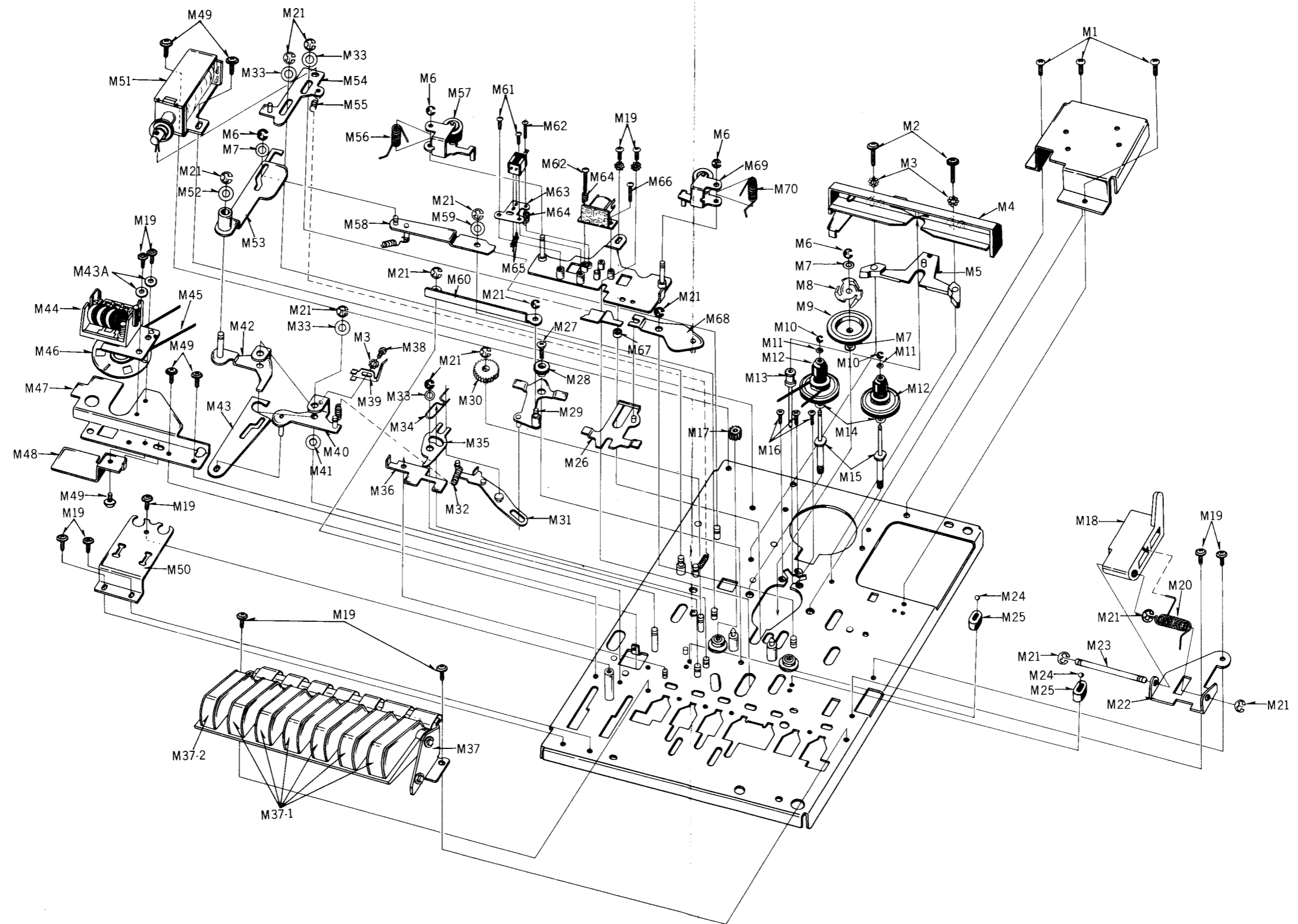
STANDARD VALUE TO BE ADJUSTED

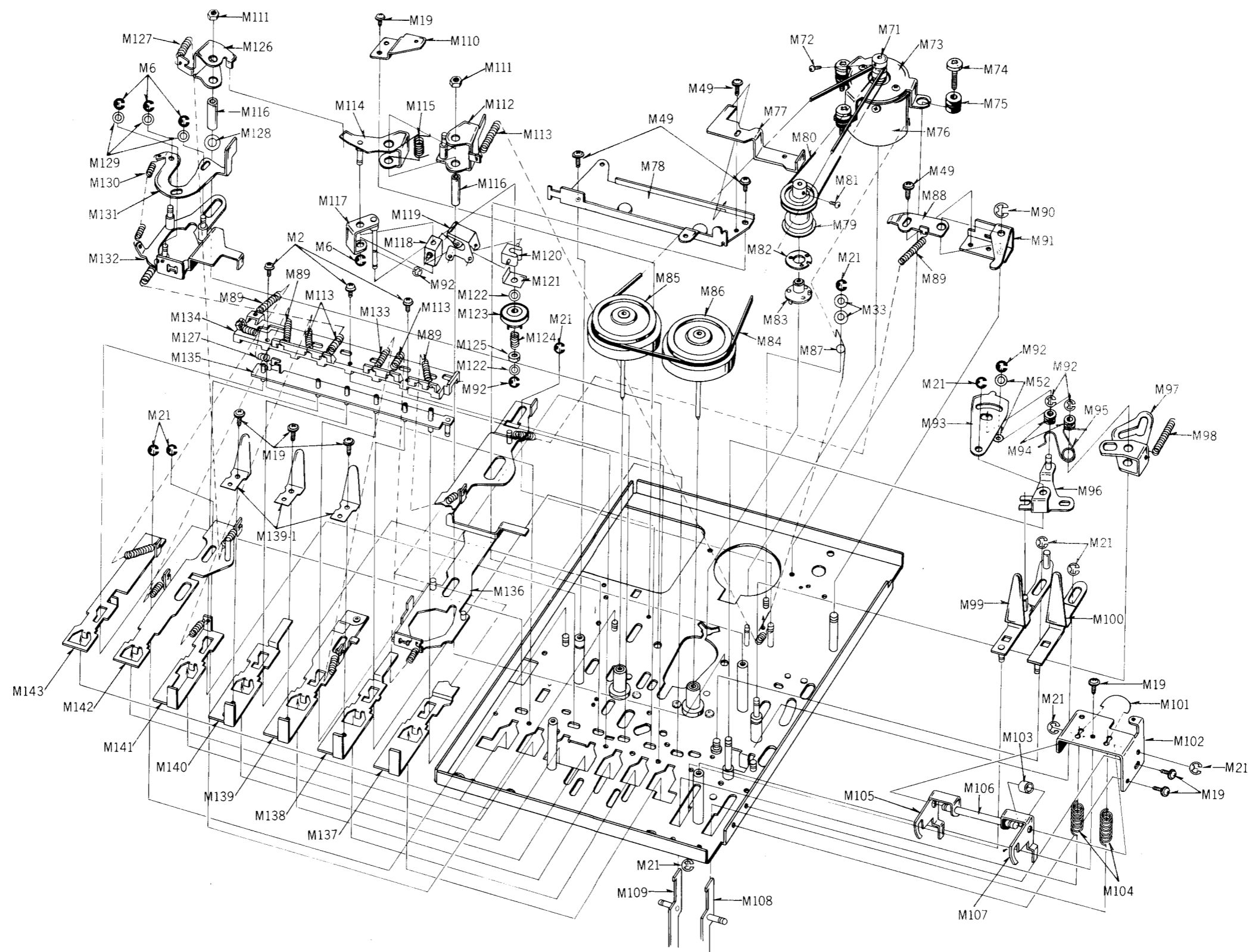
ITEM	VALUE	PARTS TO BE ADJUSTED	REMARK
Recording bias current.	0.45mA	CV1 (CH1) CV2 (CH2)	_____
Input level	MIC -70 ± 3 dB LINE IN -30 ± 3 dB	VR5 (CH1) VR6 (CH2)	_____
Bias oscillation frequency.	100 ± 10 kHz	_____	_____
Erase current.	0.015mA	_____	_____
Takeup tention.	55 ± 15 gr-cm	_____	_____
Pressure of pressure roller.	350 ± 50 gr	Pressure Roller Lever Spring (M56, M70)	_____

ELECTRICAL PARTS LOCATION



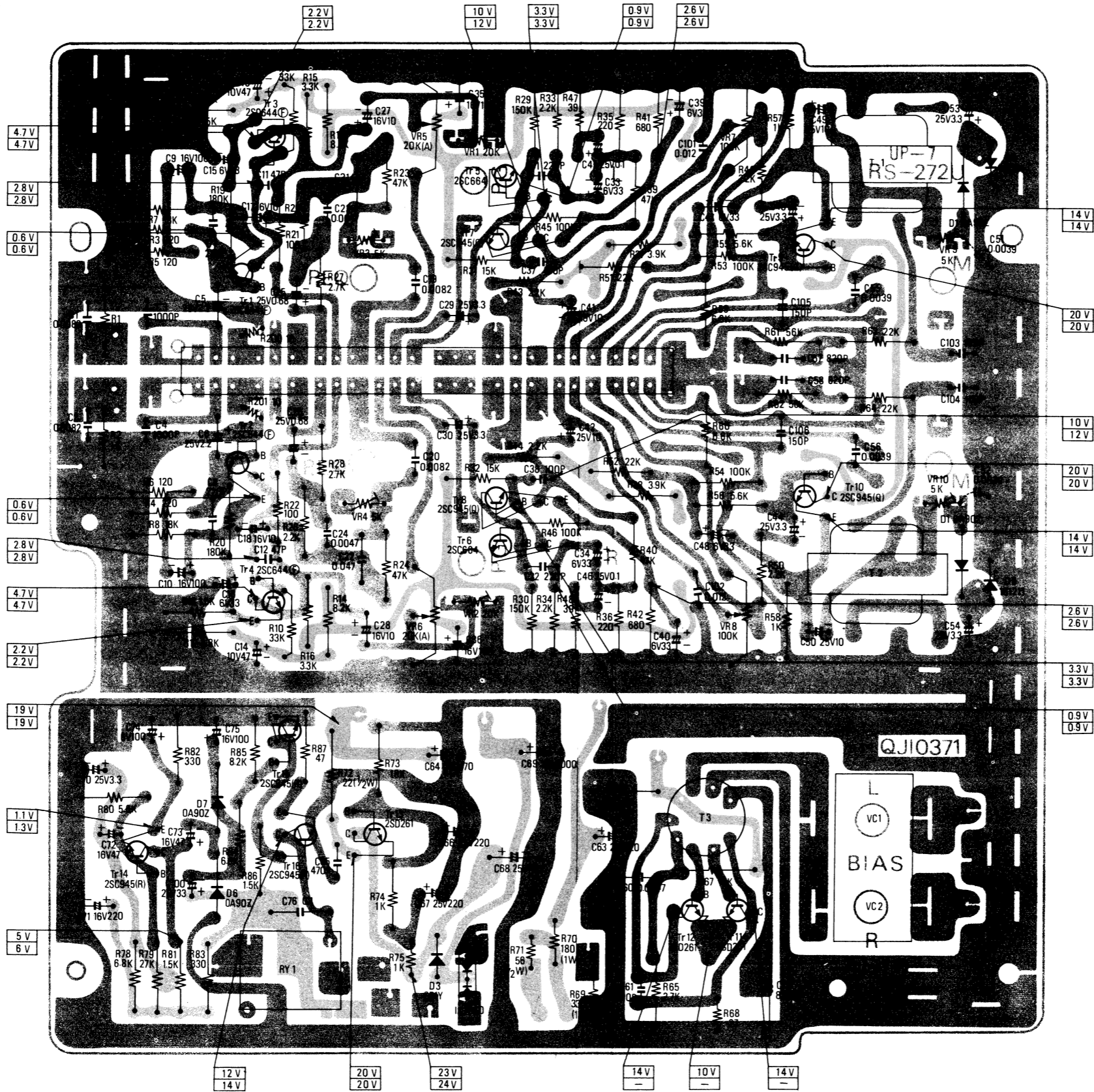
EXPLODED VIEWS



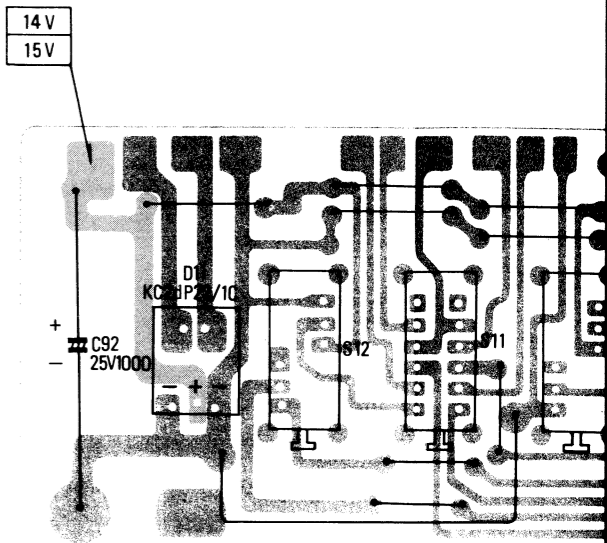


CIRCUIT BOARD

MAIN CIRCUIT BOARD

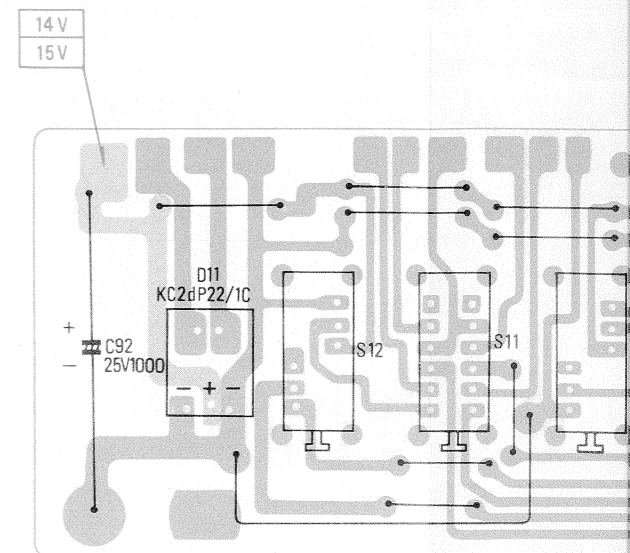


POWER CIRCUIT BOARD

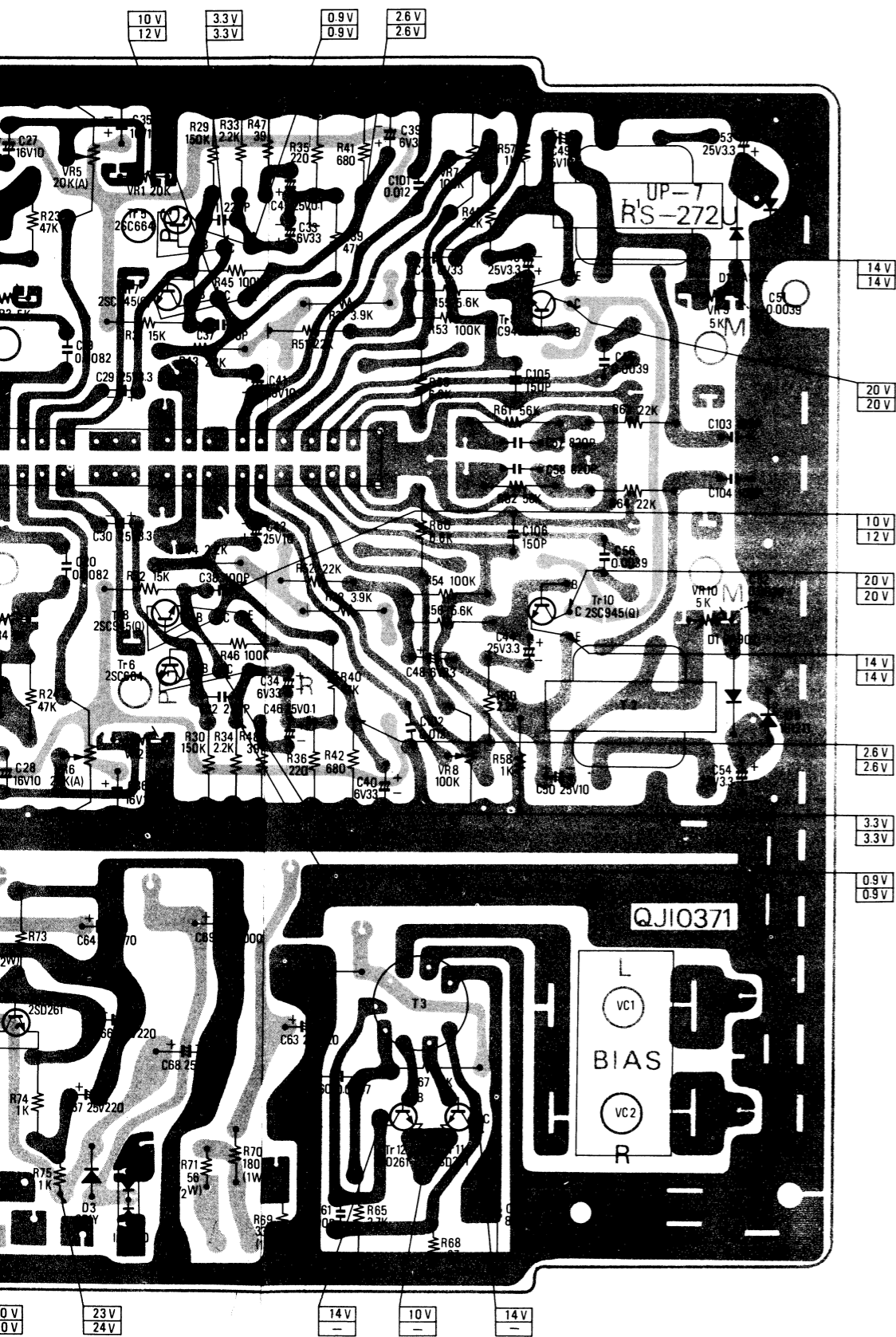


NOTE:
The circuit shown
Values indicated
electrical parts.
The upper values
lower values during

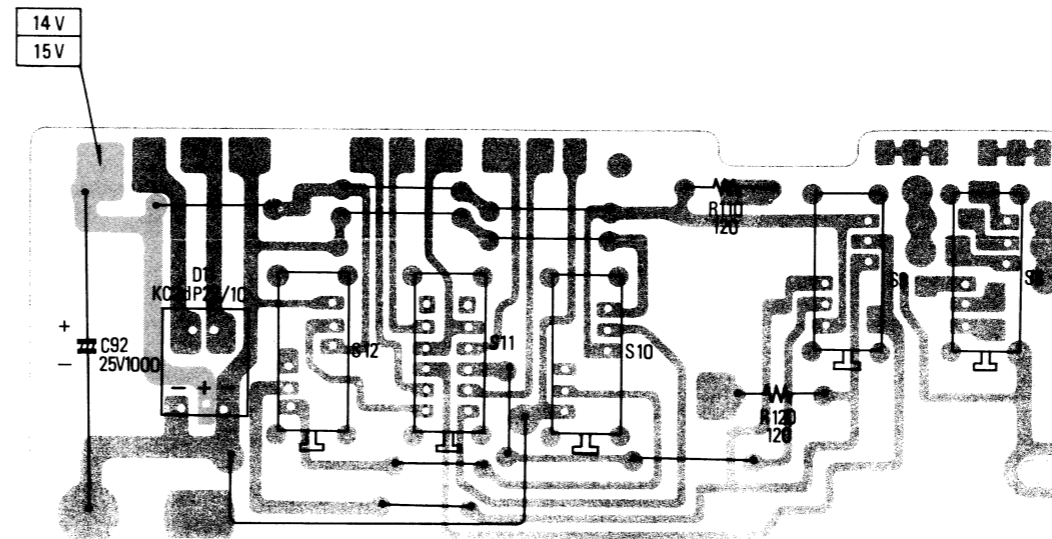
MAIN CIRCUIT BOARD



The circuit shown in Figure 1. Values indicated in parentheses are for electrical parts. The upper values are for the upper values during the test.



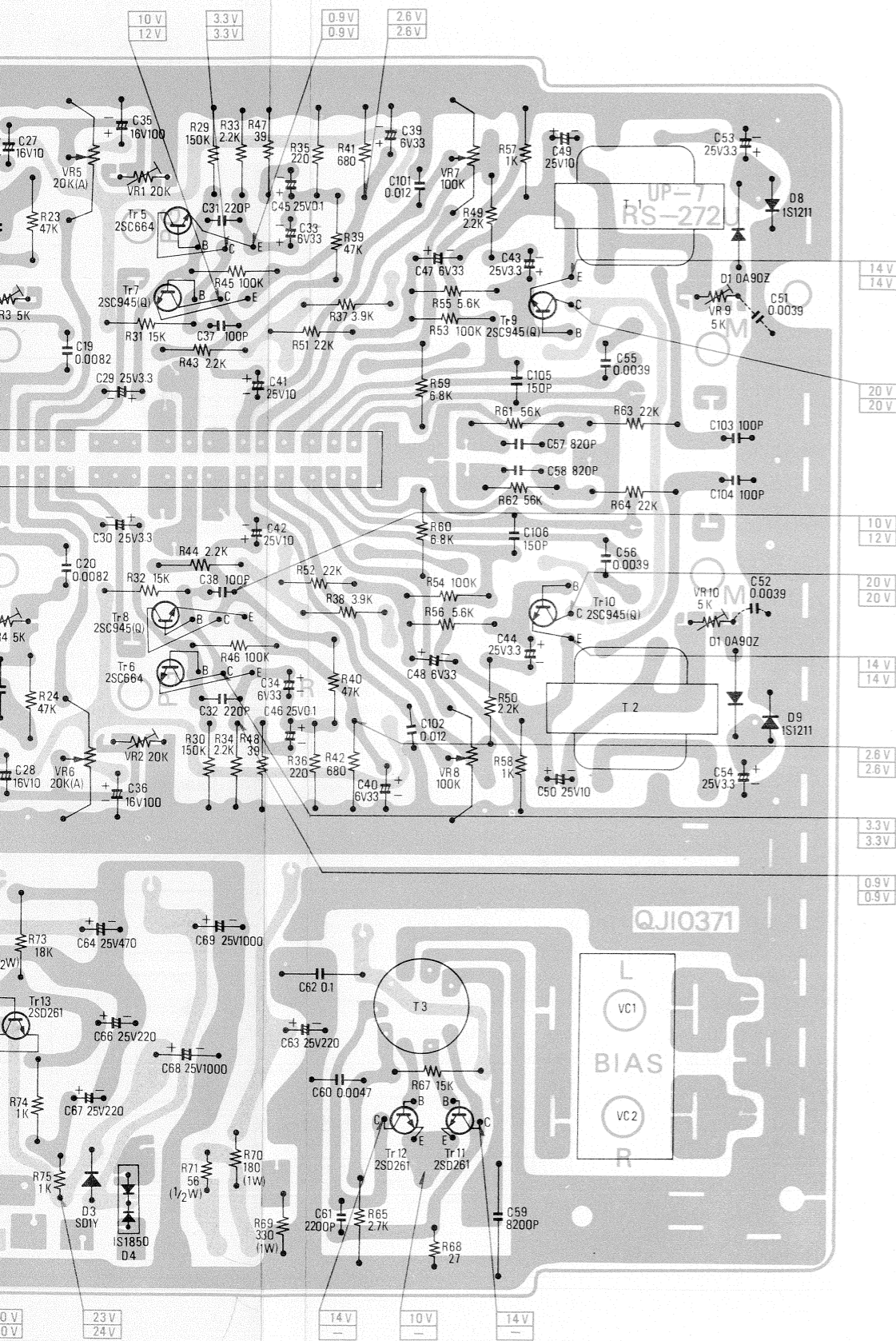
POWER CIRCUIT BOARD



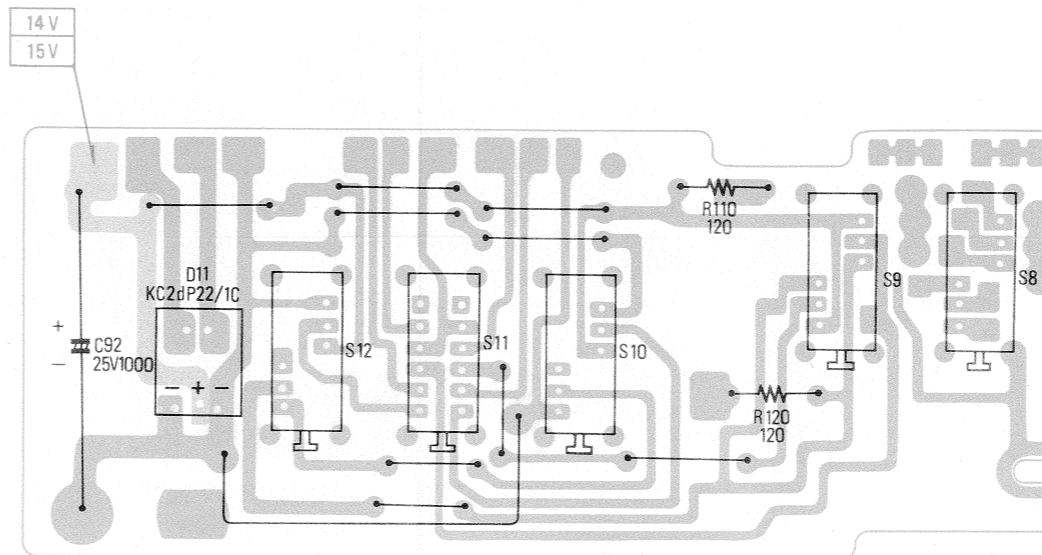
NOTE:

The circuit shown in red on the conductor side is +B circuit.
Values indicated in are DC voltages between the chassis and electrical parts.

The upper values should be measured during recording and the lower values during playback.



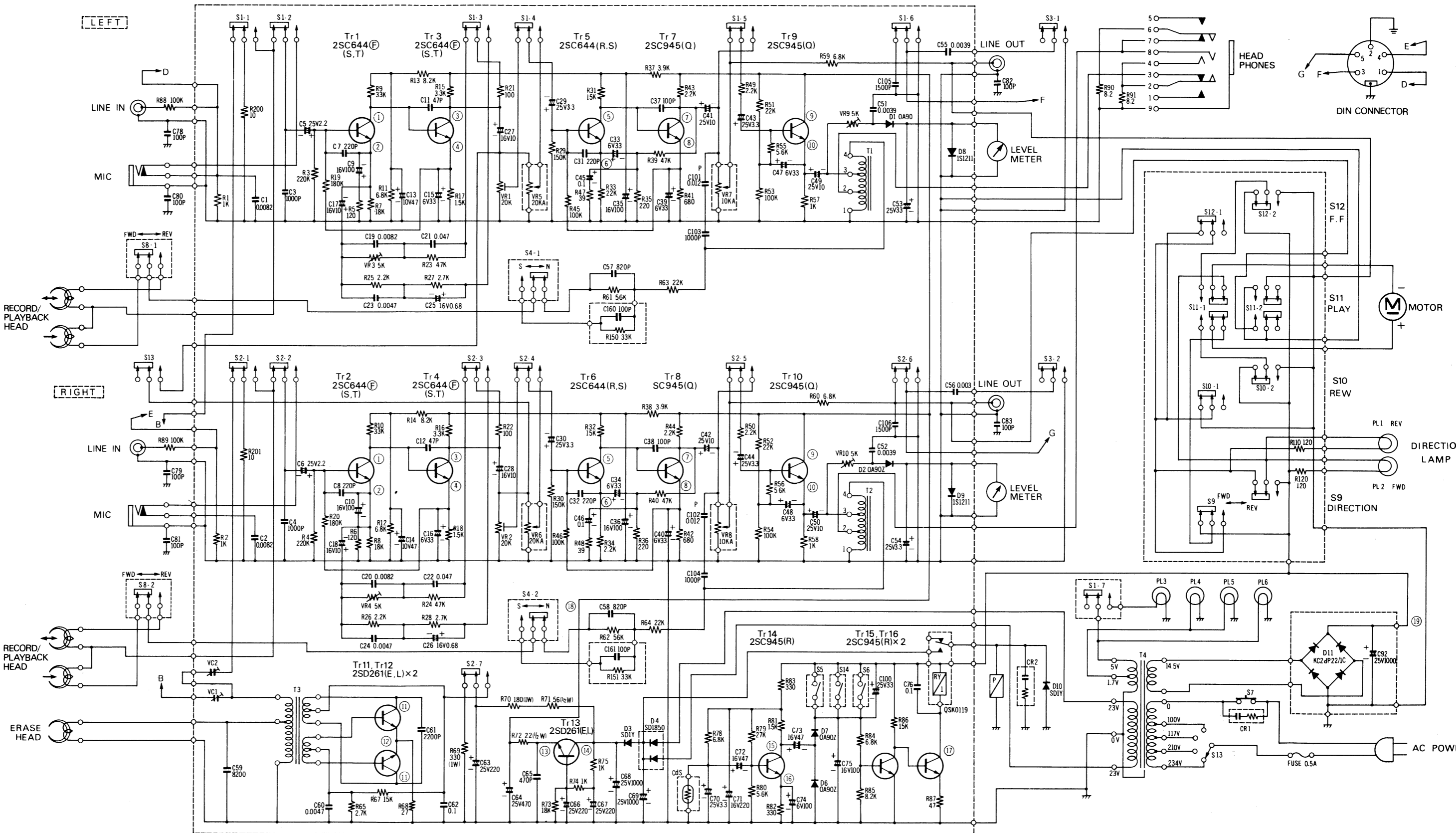
POWER CIRCUIT BOARD



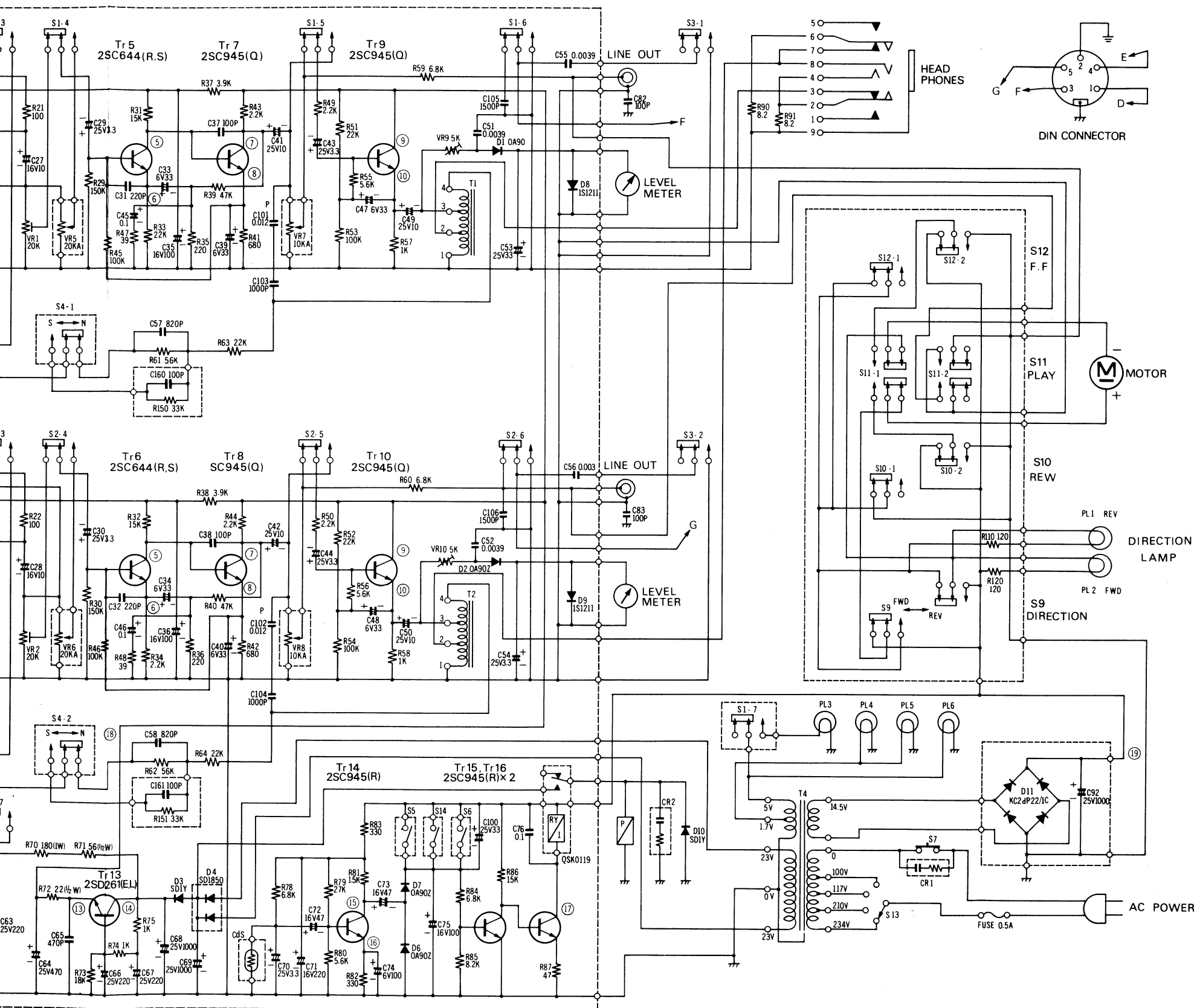
NOTE:

The circuit shown in red on the conductor side is +B circuit.
Values indicated in are DC voltages between the chassis and electrical parts.
The upper values should be measured during recording and the lower values during playback.

SCHEMATIC DIAGRAM MODEL RS-272US



S-272US



STANDARD VOLTAGE CHART

Check Point	Recording	Playback	Check Point	Recording	Playback
①	2.8V	2.8V	⑪	14V	—
②	0.6V	0.6V	⑫	10V	—
③	4.7V	4.7V	⑬	20V	20V
④	2.2V	2.2V	⑭	23V	24V
⑤	3.3V	3.3V	⑮	5V	6V
⑥	0.9V	0.9V	⑯	1.1V	1.3V
⑦	10V	10V	⑰	12V	14V
⑧	2.6V	2.6V	⑱	19V	19V
⑨	20V	20V		14V	15V
⑩	14V	14V			

NOTE: All measurements are under no signal conditions with volume at minimum position.
Use P-type VTVM for DC voltage measurements.

NOTE:

- S1-1 ~ S1-7, S2-1 ~ S2-7 ... Record/playback select switch (shown in playback position)
- S3-1, S3-2 ... Noise suppress ON/OFF switch (shown in OFF position)
- S4 ... Tape select switch (shown in normal position)
N ... Normal L ... Low noise
- S5, S6, S14 ... Plunger cut switch (shown in OFF position)
- S7 ... Power ON/OFF switch (shown in ON position)
- S8-1, S8-2, S9 ... Forward/reverse select switch (shown in forward position)
- S10 ... Rewind switch (shown in OFF position)
- S11 ... Play switch (coupled with muting switch)
- S12 ... Fast forward switch (shown in OFF position)
- S13 ... AC voltage select switch
- RY1 ... Relay (plunger cut)
- VR1, VR2 ... Playback amplifier gain adjustment VR
- VR3, VR4 ... Playback equalizer adjustment VR
- VR5, VR6 ... Recording level control
- VR7, VR8 ... Output control
- VR9, VR10 ... Recording level indication adjustment VR
- Resistors are ohms (Ω), 1/4 watt unless specified otherwise.
K = 1,000
- Capacitors are microfarad (μ f) unless specified otherwise.
P = Micro-microfarads
- Encircled numbers (○) show the checkpoints for voltage between the electrical parts and ground.
The voltage values are marked in the standard voltage chart.

CABINET PARTS

